

3.1

1.

Atlas

2024-09-30

Access Manager

Billing

All ClustersGet Help031 18 54

C502301

Data ServicesCharts

Overview

DEPLOYMENT

Database

SERVICES

Search

Vector Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 4

Goto

2024-09-30 - MY FIRST ORG > C502301

Database Access

Database UsersCustom Roles

+ ADD NEW DATABASE USER

User	Authentication Method	MongoDB Roles	Resources	Actions
s69i22260031	SCRAM	readWriteAnyDatabase@admin	All Resources	<div>EDITDELETE</div>

System Status: All Good

2.

MongoDB uses [SCRAM](#) as its default authentication method.

### Password Authentication

[SHOW](#)[🔍 Autogenerate Secure Password](#)[📋 Copy](#)

### Database User Privileges

Configure role based access control by assigning database user a mix of one built-in role, multiple custom roles, and multiple specific privileges. A user will gain access to all actions within the roles assigned to them, not just the actions those roles share in common. **You must choose at least one role or privilege.** [Learn more about roles.](#)

#### Built-in Role

[1 SELECTED](#)

Select one [built-in role](#) for this user.



#### Custom Roles



Select your [pre-defined custom role\(s\)](#). Create a custom role in the [Custom Roles](#) [🔗](#) tab.

#### Specific Privileges



Select multiple privileges and what database and collection they are associated with. Leaving collection blank will grant this role for all collections in the database.

### Restrict Access to Specific Clusters/Federated Database Instances/Stream Processing Instances

Enable to specify the resources this user can access. By default, all resources in this project are accessible.



### Temporary User

This user is temporary and will be deleted after your specified duration of 6 hours, 1 day, or 1 week.

[Cancel](#)[Add User](#)

User	Authentication Method	MongoDB Roles	Resources	Actions
s65122250031	SCRAM	readWriteAnyDatabase@admin	All Resources	<a href="#">EDIT</a> <a href="#">DELETE</a>
user031	SCRAM	readWriteAnyDatabase@admin	All Resources	<a href="#">EDIT</a> <a href="#">DELETE</a>

3.

```
[11] !pip install "pymongo[srv]"
Requirement already satisfied: pymongo[srv] in /usr/local/lib/python3.10/dist-packages (4.10.1)
WARNING: pymongo 4.10.1 does not provide the extra 'srv'
Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in /usr/local/lib/python3.10/dist-packages (from pymongo[srv]) (2.7.0)

[12] from pymongo import MongoClient

[13] CONNECTION_STRING = "mongodb+srv://user031:_____@csd2301-65122250031.znzd.mongodb.net/"

[14] client = MongoClient(CONNECTION_STRING)

[15] db = client[pharthiwath_test_db]

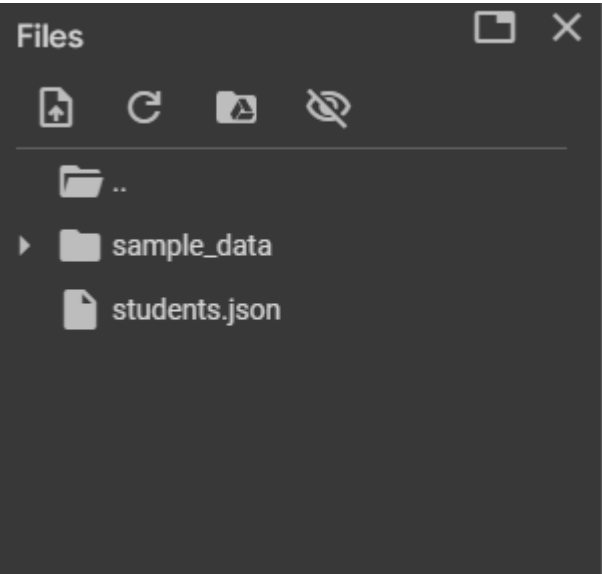
[17] db.create_collection("student1")
Collection(Database(MongoClient(host=['csd2301-65122250031-shard-00-02.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-01.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-00.znzd.mongodb.net:27017'], document_class=dict, tz_aware=False, connect=True, authsource='admin', replicaset='atlas-14hfk1-shard-0', tls=True), 'pharthiwath_test_db'), 'student1')

collections = db.list_collection_names()
print(collections)

['items', 'student1', 'users']

[18] Start coding or generate with AI.
```

5.



6.

```
import json

[21] try:
    with open('students.json') as file:
        file_data = json.load(file)

    except json.JSONDecodeError:
        with open('students.json') as file:
            file_data = [json.loads(line) for line in file]

    print(file_data)

[[{"_id": 0, 'name': 'Aimee Zank', 'scores': [{"score": 1.463179736705023, 'type': 'exam'}, {"score": 11.78273309957772, 'type': 'quiz'}, {"score": 35.8740349954354, 'type': 'homework'}]}, {"_id": 1, 'name': 'Aurelia Menendez', 'scores': [{"score": 6
```

7.

```
[22] db

Database(MongoClient(host=['csd2301-65122250031-shard-00-02.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-01.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-00.znzd.mongodb.net:27017'],
document_class=dict, tz_aware=False, connect=True, authsource='admin', replicaset='atlas-14hfk1-shard-0', tls=True), 'pharthiwath_test_db')

[23] collections_1 = db['student1']

[24] collections_1

Collection(Database(MongoClient(host=['csd2301-65122250031-shard-00-02.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-01.znzd.mongodb.net:27017', 'csd2301-65122250031-shard-00-00.znzd.mongodb.net:27017'],
document_class=dict, tz_aware=False, connect=True, authsource='admin', replicaset='atlas-14hfk1-shard-0', tls=True), 'pharthiwath_test_db'), 'student1')

[25] if isinstance(file_data, list):
    collections_1.insert_many(file_data)
else:
    collections_1.insert_one(file_data)
```

+ Create Database

Search Namespaces

pharthiwath\_test\_db

- items
- student1
- users
- sample\_airbnb
- sample\_analytics
- sample\_geospatial
- sample\_mflix
- sample\_restaurants
- sample\_weatherdata

pharthiwath\_test\_db.student1

STORAGE SIZE: 32KB LOGICAL DATA SIZE: 33.06KB TOTAL DOCUMENTS: 200 INDEXES TOTAL SIZE: 24KB

FindIndexesSchema Anti-PatternsAggregationSearch Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

FilterType a query: { field: 'value' }ResetApplyOptions

QUERY RESULTS: 1-20 OF MANY

\_id: 0

name: "Aimee Zank"

scores: Array (3)

\_id: 1

name: "Aurelia Menendez"

scores: Array (3)

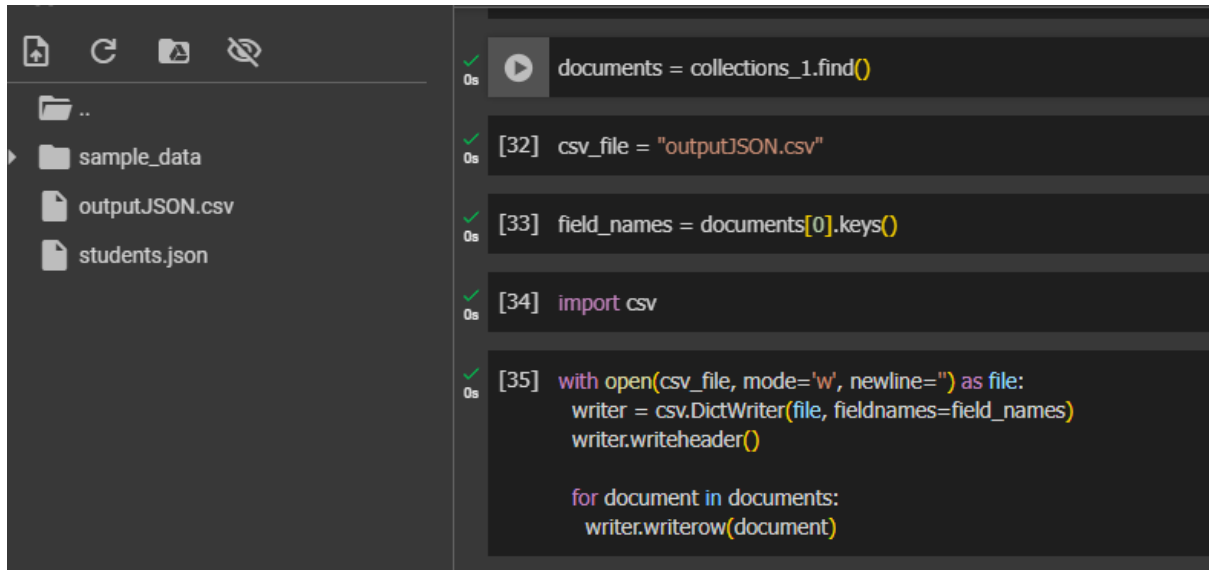
\_id: 2

name: "Corliss Zuk"

scores: Array (3)

1-20 of many results

8.



```
documents = collections_1.find()  
  
[32] csv_file = "outputJSON.csv"  
  
[33] field_names = documents[0].keys()  
  
[34] import csv  
  
[35] with open(csv_file, mode='w', newline="") as file:  
    writer = csv.DictWriter(file, fieldnames=field_names)  
    writer.writeheader()  
  
    for document in documents:  
        writer.writerow(document)
```

9.

```
def print_names():
    try:
        cursor = collections_1.find({}, {"_id": 0, "name": 1})
        for document in cursor:
            print(document['name'])

    except Exception as e:
        print("An error occurred:", e)

print_names()
```

Laureen Salomone  
Gwyneth Garling  
Kaila Deibler  
Tandra Meadows  
Gwen Honig  
Sadie Jernigan  
Carli Belvins  
Synthia Labelle  
Eugene Magdaleno  
Meagan Oakes  
Richelle Siemers  
Mariette Batdorf  
Rachell Aman  
Aleida Elsass  
Kayce Kenyon  
Ernestine Macfarland  
Houston Valenti  
Terica Brugger  
Lady Lefevers  
Kurtis Jiles  
Barbera Lippman  
Dinah Sauve  
Alica Pasley  
Elizabet Kleine  
Tawana Oberg  
Malisa Jeanes  
Joel Rueter  
Tresa Sinha  
Danika Loeffler  
Chad Rahe  
Joaquina Arbuckle

```
[37] def print_collection_data():
    try:
        cursor = collections_1.find()
        for document in cursor:
            print(document)
    except Exception as e:
        print("An error occurred:", e)

print_collection_data()
```

```
{
  "id": 142, "name": "Laureen Salomone", "scores": [{"score": 42.54322973844196, "type": "exam"}, {"score": 33.03152379449381, "type": "quiz"}, {"score": 77.52357320933667, "type": "homework"}]},
  "id": 143, "name": "Gwyneth Garling", "scores": [{"score": 44.29553481758053, "type": "exam"}, {"score": 23.15599504527296, "type": "quiz"}, {"score": 84.83695219376807, "type": "homework"}]},
  "id": 144, "name": "Kaila Deibler", "scores": [{"score": 20.85988856264308, "type": "exam"}, {"score": 73.51120532285645, "type": "quiz"}, {"score": 88.72483530139125, "type": "homework"}]},
  "id": 145, "name": "Tandra Meadows", "scores": [{"score": 19.07796402740767, "type": "exam"}, {"score": 7.63846325490759, "type": "quiz"}, {"score": 60.84655775785094, "type": "homework"}]},
  "id": 146, "name": "Gwen Honig", "scores": [{"score": 35.99646382910844, "type": "exam"}, {"score": 74.46323507534565, "type": "quiz"}, {"score": 90.95590422002779, "type": "homework"}]},
  "id": 147, "name": "Sadie Jernigan", "scores": [{"score": 6.14281392478545, "type": "exam"}, {"score": 44.94102013771302, "type": "quiz"}, {"score": 89.94407975401369, "type": "homework"}]},
  "id": 148, "name": "Carli Belvins", "scores": [{"score": 84.43618167501119, "type": "exam"}, {"score": 1.702113040528119, "type": "quiz"}, {"score": 88.48032660881387, "type": "homework"}]},
  "id": 149, "name": "Synthia Labelle", "scores": [{"score": 11.06312649271668, "type": "exam"}, {"score": 89.27462706564148, "type": "quiz"}, {"score": 41.1722010153017, "type": "homework"}]},
  "id": 150, "name": "Eugene Magdaleno", "scores": [{"score": 69.64543341032858, "type": "exam"}, {"score": 17.46202326917462, "type": "quiz"}, {"score": 39.41502498794787, "type": "homework"}]},
  "id": 151, "name": "Meagan Oakes", "scores": [{"score": 75.02808260234913, "type": "exam"}, {"score": 35.45524188731927, "type": "quiz"}, {"score": 75.84754202828454, "type": "homework"}]},
  "id": 152, "name": "Richelle Stiemers", "scores": [{"score": 52.0158789874646, "type": "exam"}, {"score": 19.25549934746802, "type": "quiz"}, {"score": 68.33217408510437, "type": "homework"}]},
  "id": 153, "name": "Mariette Batdorf", "scores": [{"score": 91.38690728885123, "type": "exam"}, {"score": 39.98831767858929, "type": "quiz"}, {"score": 51.59702098442595, "type": "homework"}]},
  "id": 154, "name": "Rachell Aman", "scores": [{"score": 94.50988306850947, "type": "exam"}, {"score": 5.68414255121964, "type": "quiz"}, {"score": 64.46720717616572, "type": "homework"}]},
  "id": 155, "name": "Aleida Elsass", "scores": [{"score": 42.89558347656537, "type": "exam"}, {"score": 94.10647660402866, "type": "quiz"}, {"score": 30.56402201379193, "type": "homework"}]},
  "id": 156, "name": "Kayce Kenyon", "scores": [{"score": 54.00824880446614, "type": "exam"}, {"score": 19.20300722190935, "type": "quiz"}, {"score": 71.57649363606814, "type": "homework"}]},
  "id": 157, "name": "Ernestine Macfarland", "scores": [{"score": 9.666623747888858, "type": "exam"}, {"score": 98.76040135775126, "type": "quiz"}, {"score": 51.674535737397309, "type": "homework"}]},
  "id": 158, "name": "Houston Valenti", "scores": [{"score": 68.36209185504055, "type": "exam"}, {"score": 15.83819664395878, "type": "quiz"}, {"score": 81.7258704821604, "type": "homework"}]},
  "id": 159, "name": "Terica Brugger", "scores": [{"score": 97.822030541043, "type": "exam"}, {"score": 91.56280485763772, "type": "quiz"}, {"score": 62.01976292987356, "type": "homework"}]},
  "id": 160, "name": "Lady Lefevers", "scores": [{"score": 89.14702404133767, "type": "exam"}, {"score": 11.85715160788611, "type": "quiz"}, {"score": 87.70817474845785, "type": "homework"}]},
  "id": 161, "name": "Kurtis Jiles", "scores": [{"score": 38.84932631249875, "type": "exam"}, {"score": 75.6856190089661, "type": "quiz"}, {"score": 54.8262895255851, "type": "homework"}]},
  "id": 162, "name": "Barbara Lippman", "scores": [{"score": 10.1210778879972, "type": "exam"}, {"score": 57.39236107118298, "type": "quiz"}, {"score": 56.36039761834183, "type": "homework"}]},
  "id": 163, "name": "Dinah Sauve", "scores": [{"score": 9.660849614328693, "type": "exam"}, {"score": 0.710026283123355, "type": "quiz"}, {"score": 64.85706587155985, "type": "homework"}]},
  "id": 164, "name": "Alicia Pasley", "scores": [{"score": 41.3852820348269, "type": "exam"}, {"score": 87.0183839032626, "type": "quiz"}, {"score": 37.22917544696978, "type": "homework"}]},
  "id": 165, "name": "Elizabeth Kleine", "scores": [{"score": 23.35599596646158, "type": "exam"}, {"score": 45.42989961046475, "type": "quiz"}, {"score": 59.29421526983006, "type": "homework"}]},
  "id": 166, "name": "Tawana Oberg", "scores": [{"score": 79.24755285478162, "type": "exam"}, {"score": 97.28127199858804, "type": "quiz"}, {"score": 67.0528222080174, "type": "homework"}]},
  "id": 167, "name": "Malisa Jeanes", "scores": [{"score": 40.68676040665008, "type": "exam"}, {"score": 52.60826688242043, "type": "quiz"}, {"score": 94.67979508129564, "type": "homework"}]},
  "id": 168, "name": "Joel Rueter", "scores": [{"score": 21.78981361637835, "type": "exam"}, {"score": 1.182228345865832, "type": "quiz"}, {"score": 43.70843975739338, "type": "homework"}]},
  "id": 169, "name": "Tresa Sinha", "scores": [{"score": 52.22632020277269, "type": "exam"}, {"score": 65.68701091428014, "type": "quiz"}, {"score": 86.80410157346574, "type": "homework"}]},
  "id": 170, "name": "Danika Loeffler", "scores": [{"score": 80.13802901122058, "type": "exam"}, {"score": 9.613195588726075, "type": "quiz"}, {"score": 88.1580114788293, "type": "homework"}]},
  "id": 171, "name": "Chad Rahe", "scores": [{"score": 81.24054522370292, "type": "exam"}, {"score": 17.44929152365297, "type": "quiz"}, {"score": 82.77870021356301, "type": "homework"}]},
  "id": 172, "name": "Joaquina Arbuckle", "scores": [{"score": 35.43562368815135, "type": "exam"}, {"score": 89.74640983145014, "type": "quiz"}, {"score": 99.13868686848834, "type": "homework"}]},
  "id": 173, "name": "Vinnie Auerbach", "scores": [{"score": 57.26312067710243, "type": "exam"}, {"score": 20.63583040849144, "type": "quiz"}, {"score": 77.02638482252677, "type": "homework"}]}
```